USER GUIDE

PoE & Optical Transmission /////////////

Intelligent managed PoE Switch

ONV

Statement

Packing List

Please kindly check the following items:

➤ 1 Intelligent managed PoE switch
➤ 1 Power Adapter
➤ 2 Mounting Kits
➤ 1 User Guide/Conformity Certificate/Warranty Card

⚠ Note

If any shortage or damage found, please contact us in time.

Product overview

Product Introduction

ONV Intelligent Ethernet Switch fills in that blank between Unmanaged Switch and Full Managed Switch. Intelligent Ethernet Switch is designed for growing business network who needs to control their network effectively and don't want to cost more on full layer 2/3 complicated function. The Ethernet switch which is also built in PoE module provides an affordable solution of power and data over Cat.5 cable. It complied to IEEE802.3af, provide WEB management function of Priority and SNMP to achieve the idea deployment of Wilress AP, VoIP and IP based camera. Two Gigabit TP/SFP combo port can complete the fast connection with server or Gigabit backplane.

24 or 16 10/100Mbps RJ45 port, 2 10/100/1000Mbps TP/SFP Combo port make growing business profits from outstanding perfermance and network extended function. The high performance, line-speed structure Ethernet Switch have Max 8.8Gbps switch capacity. All the 26/18 RJ45 Port support auto- negotiation and Auto-Uplink technology for ensuring the correct network connection.
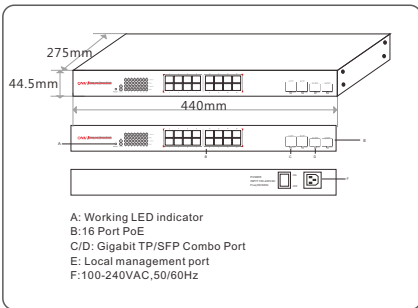
⚠ Note

The product 'Switch' mentioned in the manual, if without a special request, it is refering to 10/100M unmanaged PoE switch, PoE switch in short in below.
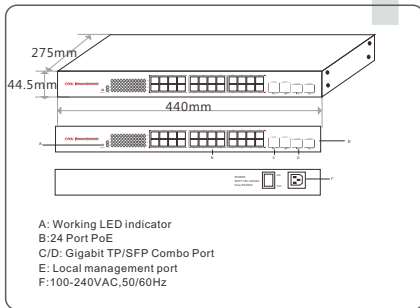
Feature

- Complied to IEEE802.3af/at, 10Based-T, 100Based-T, 1000Based-T.
- Web management function based on Web.
- Provide PoE management, VLAN, Link Aggregation,QoS, MAC address binding and other intelligent management function.
- Ethernet Port Rate: 24/16 self-adaptive 10/100Mbps and 2 self-adaptive 10/100/1000Mbps.
- Support IEEE802.3af PoE (15.4Watts) or IEEE802.3at(30Watts)
- PIN assignment: End-span(1/2+,3/6-), Mid-span (4/5+, 7/8-)
- Working mode: asynchronization, point to point, full/half duplex self-negotiation.
- Ethernet Port Transmission Range: 100meters
- Two SFP GBIC Slot used for Fiber connection.
- Cable: UTP 5E, Interface: RJ45
- 19' standard cabinet, industrial high reliability.

Technical Structure and Port Description

275mm
44.5mm
440mm

A: Working LED indicator
B: 16 Port PoE
C/D: Gigabit TP/SFP Combo Port
E: Local management port
F: 100-240VAC,50/60Hz

Intelligent Ethernet Switch
16 Port 10/100M+2 Port 10/100/1000M

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Intelligent Ethernet Switch
24 Port 10/100M+2 Port 10/100/1000M

Indicator description:

Indicator	Status	Description
Power Indicator: PWR	Yellow LED ON	Power ON, Normal Power Supply
	OFF	Power OFF or Power failure
System Indicator (SYSTEM)	Yellow LED ON	Abnormal System Working Status
	Yellow LED Blink	In Reading Program, Restore Factory Settings
	OFF	1,Non-Network Management, 2, Abnormal WEB Program Working Status
Link indicator: (Link/ACT)	Green LED ON	Connected port correctly
	Green LED Blink	Receiving or Sending data
	OFF	Connection failed or Abnormal Link
PoE indicator:POE	Green LED ON	Connected standard PD, Normal Power Supply
	Green LED Blink	Short Circuit or Over Load
	OFF	No Connection or Connected PD is Non-Standard PD

⚠ Note

Remark: Internal Precision Component, for avoiding device damage please handles with case, avoiding violent vibration. Please contact us or local agency if damage or component loss by shipping, We will solve it ASAP.

Indicator: Support power source, network connection, Fiber port/RJ45 port working status indication, It is convenient for engineer to parsing problem and monitoring working status.

Power port: Power port connect with PSU, internal power supply intelligent network management PoE switch are without PSU, connecting with AC110-245V/50Hz directly.

Ethernet port: Self-Adaption RJ45 port, all port support Auto MDIMDIX, Plug and play. The working status can be estimated by indicator on front panel.

SFP Gigabit fiber port: Two combo fiber port, all port support wire-speed forwarding, Rich port configuration. Seamless connection various network is allowed.

Detailed descriptions for the product model numbers

16-port Series POE switch

POE31016P: 16-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) switch , No. 1-16 ports support POE , IEEE802.3af, POE port output : 15.4watts , total power : 270watts

POE31016P-at: 16-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) switch , No. 1-16 ports support POE , IEEE802.3at, POE port output : 30watts , total power : 440watts

POE31016PM: 16-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) managed switch , No. 1-16 ports support POE , IEEE802.3af, POE port output : 15.4watts , total power : 270watts

POE31016PM-at: 16-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) managed switch , No. 1-16 ports support POE , IEEE802.3at, POE port output : 30watts , total power : 440watts

24-port Series POE switch

POE31024P: 24-port 10/100Mbps +2-port 10/100/1000Mbps up-link(Combo Ethernet port & SFP slots) switch , No. 1-24 ports support POE , IEEE802.3af, POE port output : 15.4watts , total power : 440watts

POE31024P-8at: 24-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) switch , No. 1-24 ports support POE , No. 1-8 ports support IEEE802.3at, No. 9-24 ports support IEEE802.3af , total power : 440watts

POE31024PM: 24-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) managed switch , No. 1-24 ports support POE , IEEE802.3af, POE port output : 15.4watts , total power : 440watts

POE31024PM-8at: 24-port 10/100Mbps +2-port 10/100/1000Mbps up-link (Combo Ethernet port & SFP slots) managed switch , No. 1-24 ports support POE , No. 1-8 ports support IEEE802.3at, No. 9-24 ports support IEEE802.3af , total power : 440watts
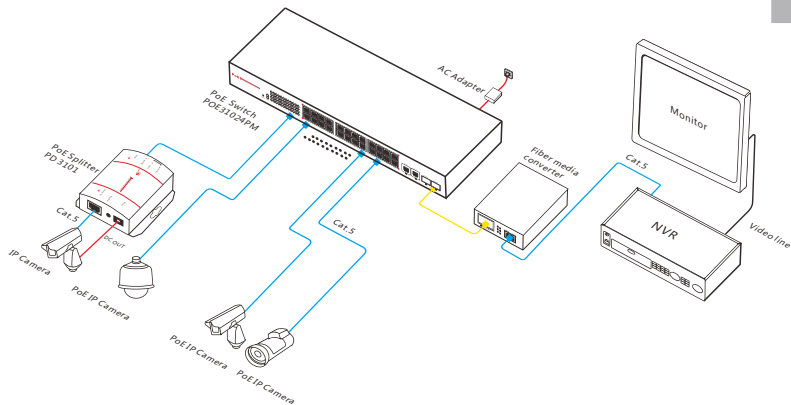
Connection Diagram

PoE Switch POE3102HPM — **AC Adapter** — **Monitor** — **Fiber media Converter** — **Cat.5** — **NVR** — **Video line** — **PoE Splitter PD 3101** — **Cat.5** — **DC out** — **IP Camera** — **PoE IP Camera** — **PoE IP Camera** — **PoE IP Camera**

Remark :
Via the Web login configuration interface and web page , you can set various configuration including exchange management, port Settings and VLAN Settings, and so on.You can use a web browser (it is recommended to use Internet Explorer 5.0 or above) to operate.   All Ethernet ports support web management , default management IP: 192.168.2.1, subnet mask :255.255.255.0, default gateway: 192.168.2.254. As long as the PC of the administrator can communicate with this equipment , this equipment can be managed .

Note:
Default login user: admin   Default login password: system.
Corresponding user name and password can be modified in" password Settings". For details, please see network management software applications "user manual"

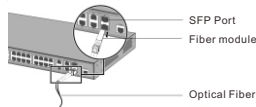# Installation guide

Connect to RJ45 port

1. Connect one end of RJ45 wire to switch, the other end to other equipment, as shown as the figure on the right;
2. After power on, please check the LED indictor status. If it is on, it shows the link is OK, otherwise, the link is down. Then please check the link and make sure the other equipment is turned on, refer to the instruction on above page for details.

Rj45 port
Plug

Connect to SFP port

Smart managed PoE switch has 2 independent SFP ports. Please refer to the following steps for optical module installation.

1. Grasp SFP module and insert it in switch SFP slot smoothly till they keep close contact;
2. Insert one end of the fiber to the Rx and Tx accordingly, and the other end to other equipment, shown as in the right figure;
3. After power on, please check the LED indictor status. If it is on, it shows the link is OK, otherwise, the link is down. Then please check the link and make sure the other equipment is turned on.

SFP Port
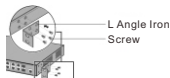Fiber module

Optical Fiber

Connect to power

Smart managed PoE switch adopts AC 100-240V, 50/60Hz.

1. Please check the power supply specification matches with the required;
2. Connect switch power wire to AC power socket, shown as in the following figure.

L Angle Iron
Screw

Power Supply Connection Figure

Mounting Kits Installation Figure

Rack Installation Figure

After installation, please check:

If there is enough space for heat sink; if the power socket is suitable for switch specification; if the power, switch and rack are properly grounded and if the connection between switch and other network equipments are normal.